

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/916,484
				Filing Date	July 30, 2001
				First Named Inventor	Shunpei YAMAZAKI et al.
				Group Art Unit	2823
				Examiner Name	S. Foong Pham
Sheet	1	of	1	Attorney Docket Number	0756-2344

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear RECEIVED MAR 29 2004 OFFICE OF PETITIONS
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ¹
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
WP		JP	01-136373			05/29/1989		AB
WP		JP	02-014533			01/18/1990		AB

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

Examiner Signature	<i>Shunpei Yamazaki</i>	Date Considered	01/19/02
-----------------------	-------------------------	--------------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

CLASS
SUB
CLASS

INFORMATION DISCLOSURE STATEMENT

OCT 15 2001

Applicants: Shunpei YAMAZAKI et al.

Filing Date: July 30, 2001

Group Art Unit: N/A 237

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
SF	4,783,145	11/08/1988	Hatanaka et al.			
SF	5,598,106	01/28/1997	Kawasaki			
SF	5,998,841	12/07/1999	Suzawa			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
1/4/99 3/30/01	1-194351	08/04/1989	JP			Eng Abst	
1/4/99 3/30/01	2-089030	03/29/1990	JP			Eng Abst	
1/4/99 3/30/01	3-154383	07/02/1991	JP			Eng Abst	
1/4/99 3/30/01	4-151820	05/25/1992	JP			Eng Abst	
1/4/99 3/30/01	4-155960	05/28/1992	JP			Eng Abst	
1/4/99 3/30/01	53-144297	12/15/1978	JP			Eng Abst	
	55-011329	01/26/1980	JP			Eng Abst	
	57-099778	08/21/1982	JP			Eng Abst	
	59-081621	05/11/1984	JP			Eng Abst	
	59-159544	09/10/1984	JP			Eng Abst	
	60-113971	06/20/1985	JP			Eng Abst	
	62-120354	07/30/1987	JP			Conc Stmt	
	62-269358	11/21/1987	JP			Eng Abst	
	62-282464	12/08/1987	JP			Eng Abst	
	63-096636	04/27/1988	JP			Eng Abst	
	63-159826	07/02/1988	JP			Eng Abst	

BEST AVAILABLE COPY

Examiner SUK-SAN FOONG

Date Considered 2/10/2002

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

10/03/2001

Form PTO-1449
(Rev. 8-83)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket: 740756-2344

Serial No. Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Shunpei YAMAZAKI et al.

Filing Date: July 30, 2001

Group: 2826
282311046 U.S. PTO
09/916484
07/30/01

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
SF	4 5 2 5 4 3 6	06/25/85	Yamazaki	—	—	
SF	4 5 9 7 1 6 0	07/01/86	Ipri	—	—	
SF	4 7 2 7 0 4 4	02/23/88	Yamazaki	—	—	
SF	4 9 3 0 8 7 4	06/05/90	Mitsumune et al.	—	—	
SF	4 9 3 8 5 6 5	07/03/90	Ichikawa	—	—	
SF	4 9 9 4 8 7 7	02/19/91	Ino et al.	—	—	
SF	4 9 4 2 4 4 1	07/17/90	Konishi et al.	—	—	
SF	4 9 5 9 7 0 0	09/25/90	Yamazaki	—	—	
SF	5 1 2 2 8 8 9	06/16/92	Kaneko et al.	—	—	
SF	5 1 6 2 9 0 1	11/10/92	Shimada et al.	—	—	
SF	5 1 6 5 0 7 5	11/17/92	Hiroki et al.	—	—	
SF	5 1 9 3 0 1 8	03/09/93	Wu	—	—	
SF	5 2 1 8 4 6 4	06/08/93	Hiroki et al.	—	—	
SF	5 2 7 4 2 7 9	12/28/93	Misawa et al.	—	—	
SF	5 2 8 7 0 9 5	02/15/94	Kitazima et al.	—	—	
SF	5 2 8 9 0 3 0	02/94	Yamazaki et al.	—	—	
SF	5 2 9 4 5 5 5	03/15/94	Mano et al.	—	—	
SF	5 2 9 4 8 1 1	03/15/94	Aoyama et al.	—	—	

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No
0 1 9 4 3 5 1	8/1989	Japan			
1 5 4 3 8 3	7/1991	Japan			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner SUK-SUN FONG Date Considered 2/10/2003

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

BEST AVAILABLE COPY

Form PTO-1449
(Rev. 8-83)

U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 740756-2344

Serial No. Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Shunpei YAMAZAKI et al.

Filing Date: July 30, 2001

Group: 2826-2823

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	4 7 7 5 6 4 1	10/04/88	Duffy et al.	—	—	
SF	4 8 1 6 8 9 3	03/28/89	Mayer et al.	—	—	
SF	4 9 1 6 0 9 0	04/10/90	Motai et al.	—	—	
SF	5 1 1 1 2 6 1	05/05/92	Tanaka et al.	—	—	
SF	4 9 6 0 7 1 9	10/02/90	Tanaka et al.	—	—	
SF	4 7 0 9 9 9 3	12/01/87	Kuribayashi et al.	—	—	
SF	4 7 6 9 7 1 3	09/06/88	Yasui	—	—	
SF	4 7 8 3 1 4 5	11/08/88	Hatanaka et al.	—	—	
SF	4 8 0 8 9 9 1	02/28/89	Tachiuchi et al.	—	—	
SF	4 8 8 4 0 7 9	11/28/89	Inoue et al.	—	—	

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No
0 0 1 1 3 2 9	01/26/80	Japan	—	—	
008 1 1 3 9 7 1	06/20/85	Japan	—	—	
628 2 6 9 3 5 8	11/21/87	Japan	—	—	
628 2 8 2 4 6 4	12/08/87	Japan	—	—	
0 1 5 4 3 8 3	07/02/91	Japan	—	—	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner SUE-SAN FONG

Date Considered 2/10/2002

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

BEST AVAILABLE COPY

Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. 740756-2826		Serial No. Not Yet Assigned <div style="font-size: 1.5em; font-family: cursive;">09/916484</div>		
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)								
				Applicant: Shunpei YAMAZAKI et al.				
				Filing Date: July 30, 2001		Group: 2826 <div style="font-size: 1.5em; font-family: cursive;">2823</div>		
U.S. PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)	
SF		4 9 2 9 0 5 8	05/29/90	Numao	—	—	/	
SF		5 2 8 0 2 8 0	01/18/94	Hotto	—	—		
SF		5 3 4 9 3 6 6	09/20/94	Yamazaki et al.	—	—		
SF		5 4 1 4 4 4 2	05/09/95	Yamazaki et al.	—	—		
SF		4 3 8 0 0 0 8	04/12/83	Kawakami et al.	—	—		
SF		4 4 1 3 2 5 6	11/01/83	Yasuda et al.	—	—		
SF		4 6 0 5 9 7 2	08/12/86	Hatanaka	—	—		
SF		4 6 4 1 1 5 6	02/03/87	Ohta et al.	—	—		
SF		4 8 1 8 0 7 7	04/04/89	Ohwada et al.	—	—		
SF		4 8 3 6 6 5 4	06/06/89	Fujimura et al.	—	—		
SF		4 9 3 8 5 6 5	07/03/90	Ichikawa	—	—		
SF		5 1 1 7 2 9 8	05/26/92	Hirai	—	—		
SF		5 1 6 5 0 7 3	11/17/92	Hiroki et al.	—	—		
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass		Translation Yes No
SF	50	9 9 7 7 8	06/21/82	Japan	—	—	/	
SF	50	5 9 5 4 4	09/10/84	Japan	—	—		
SF	0	1 5 9 8 2 6	07/02/88	Japan	—	—		
SF	20	0 8 9 0 3 0	03/29/90	Japan	—	—		
SF	630	0 9 6 6 3 6	04/27/88	Japan	—	—		
SF	0	1 4 4 2 9 7	12/15/78	Japan	—	—		
SF	918	0 8 1 6 2 1	05/11/84	Japan	—	—		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
Examiner <u>SUK-SAN FOLING</u>				Date Considered <u>2/16/2002</u>				
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

BEST AVAILABLE COPY

Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. 740756-2344		Serial No. Not Yet Assigned 09/916484	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)							
				Applicant: Shunpei YAMAZAKI et al.			
				Filing Date: July 30, 2001		Group: 2826 2823	
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
SF		4 5 5 7 0 3 6	12/10/85	Kyuragi et al.	—	—	
SF		4 9 0 5 0 6 6	02/27/90	Dohjo et al.	—	—	
SF		4 4 6 8 8 5 5	09/04/84	Sasaki	—	—	
SF		4 7 4 6 6 2 8	05/24/88	Takafuji et al.	—	—	
SF		5 1 3 2 6 7 7	07/92	Nicholas	—	—	
SF		5 2 1 8 4 6 4	06/08/93	Hiroki et al.	—	—	
SF		5 0 9 7 3 1 1	03/17/92	Iwase et al.	—	—	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
SF		0 1 4 4 2 9 7	12/78	Japan	—	—	
SF		5 8 3 2 4 6 6	02/83	Japan	—	—	
SF		58 1 2 4 2 7 3	07/83	Japan	—	—	
SF		58 1 5 8 9 6 7	09/83	Japan	—	—	
SF		58 1 1 5 8 6 4	07/83	Japan	—	—	
SF		62 1 2 4 7 6 9	06/87	Japan	—	—	
SF		5 8 8 1 9 7 2	07/81	Japan	—	—	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
Examiner <u>SLIK-SAN FONG</u>				Date Considered <u>2/10/2002</u>			
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

BEST AVAILABLE COPY

Form PTO-1449 (Rev. 8-83)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket: 740756-2344	Serial No. Not Yet Assigned <div style="font-size: 1.5em; font-family: cursive;">09/16/84</div>			
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Shunpei YAMAZAKI et al.				
		Filing Date: July 30, 2001	Group: 2826 2823			
U.S. PATENT DOCUMENTS						
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
SF	5,170,244	12/8/92	Dohjo et al.	—	—	/
SF	5,323,042	6/21/94	Matsumoto	—	—	
SF	5,701,166	12/23/97	Fedorovich et al.	—	—	
SF	4,716,403	12/29/87	Morozumi	—	—	
SF	5,530,266	6/25/96	Yonehara et al.	—	—	
SF	5,525,822	6/11/96	Vinal	—	—	
SF	4,623,908	11/18/86	Oshima et al.	—	—	
SF	5,100,822	3/31/92	Mitani	—	—	
SF	5,821,559	10/13/98	Yamazaki et al.	—	—	
SF	4,838,654	6/1989	Hamaguchi et al.	—	—	
SF	4,432,610	2/1984	Kobayashi et al.	—	—	
SF	5,459,090	10/1995	Yamazaki et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Subclass	Translation Yes No
SF	404,220,627 A 4-220627	8/1992	Japan	—	—	/
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
Examiner	SUK-LAN FONG			Date Considered 2/10/2002		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

BEST AVAILABLE COPY

Form PTO-1449
(Rev. 8-83)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 740756-2344

Serial No.: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Shunpei YAMAZAKI et al.

Filing Date: July 30, 2001

Group: 2826 2823

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
SF	4,357,179	11/02/82	Adams et al.	148	1.5	12/23/80
SF	4,757,028	07/12/88	Kondoh et al.	437	40	10/02/86
SF	4,762,806	08/09/88	Suzuki et al.	437	100	12/19/84
SF	4,762,807	08/09/88	Yamazaki	437	100	08/13/86
SF	5,053,354	10/01/91	Yanaka et al.	437	101	06/08/90
SF	5,272,361	12/21/93	Yamazaki	257	66	11/01/91
SF	5,275,872	01/04/94	Chang	428	210	08/08/91
SF	5,365,080	11/15/94	Yamazaki et al.	257	66	02/14/94
SF	5,485,019	01/16/96	Yamazaki et al.	257	57	02/03/93
SF	5,514,879	05/07/96	Yamazaki	257	65	06/07/95

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes	No
58-118154	07/14/83	Japan	H01L	29/78	Abstract	
58-206121	12/01/83	Japan	H01L	21/265	Full	
58-206163	12/01/83	Japan	H01L	29/78	Abstract	
59-33877	02/23/84	Japan	H01L	29/78	Abstract	
60-98680	06/01/85	Japan	H01L	29/78	Abstract	
60-109282	06/14/85	Japan	H01L	29/78	Abstract	
60-245172	12/04/85	Japan	H01L	29/78	Abstract	
61-87371	05/02/86	Japan	H01L	29/78	Abstract	
61-187274	08/20/86	Japan	H01L	29/78	Abstract	
61-263273	11/21/86	Japan	H01L	29/78	Abstract	
2-103925	04/17/90	Japan	H01L	21/20	Abstract	

Examiner SUK-SAN FONG

Date Considered

2/10/2002

*EXAMINER: Initial if citation considered, whether through citation if not in conformance and not considered by applicant.

or not citation is in conformance with MPEP 609; Draw line if not. Include copy of this form with next communication to applicant.

BEST AVAILABLE COPY

Form PTO-1449
(Rev. 8-83)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket: 740756-2344

Serial No. Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

09/914484

Applicant: Shunpei YAMAZAKI et al.

Filing Date: July 30, 2001

Group: ~~2826~~ 2823**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
SF	5,821,559	10/13/1998	Yamazaki et al.	-	-	
SF	5,719,422	02/17/1998	Burr et al.	-	-	
SF	5,854,494	12/29/1998	Yamazaki et al.	-	-	
SF	5,894,151	04/13/1999	Yamazaki et al.	-	-	
SF	4,783,145	11/08/1988	Hatamaka et al.	-	-	
SF	4,709,995	12/01/1987	Kuribayashi et al.	-	-	
SF	6,028,333	02/22/2000	Yamazaki et al.	-	-	
SF	5,075,674	12/24/1991	Katayama et al.	-	-	
SF	5,159,477	10/27/1992	Shimada et al.	-	-	
SF	5,528,056	06/18/1996	Shimada et al.	-	-	
SF	5,210,050	05/11/1993	Yamazaki et al.	-	-	
SF	5,744,818	04/28/1998	Yamazaki et al.	-	-	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
SF	2-130912	5/18/90	Japan	-	-	Abstract	
SF	2-207537	8/17/90	Japan	-	-	Abstract	
SF	4-88642	3/23/92	Japan	-	-	Abstract	
SF	4-267563	9/24/92	Japan	-	-	Abstract	
SF	5-121440	5/18/93	Japan	-	-	Abstract	
SF	02-222545	09/05/90	Japan	-	-	Full	
SF	04-151820	05/25/1992	Japan	-	-	Full	
SF	04-155960	05/28/1992	Japan	-	-	Full	
SF	62-120354	07/30/1987	Japan	-	-	Full	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner SUR-SAN FOONGTDate Considered 2/10/2002

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

BEST AVAILABLE COPY

Form PTO-1449 U.S. Department of Commerce
(Rev. 8-83) Patent and Trademark Office

Attorney Docket No.: 740756-2344

Serial No. Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

Applicant: Shunpei YAMAZAKI et al.

(Use several sheets if necessary)

Filing Date: July 30, 2001

Group: 2823

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
SF	5,097,311	03/17/92	Iwase et al.	—	—	
SF	4,905,066	02/27/90	Dohjo et al.	—	—	
SF	4,746,628	05/24/88	Takafuji et al.	—	—	
SF	4,557,036	12/10/85	Kyuragi et al.	—	—	
SF	4,468,855	09/04/84	Sasaki	—	—	
SF	5,132,677	07/21/92	Nicholas	—	—	
SF	5,218,464	06/08/93	Hiroki et al.	—	—	
SF	5,642,213	06/24/97	Mase et al.	—	—	
SF	5,369,315	11/29/94	Tran	—	—	
SF	5,272,389	12/21/93	Hatada	—	—	
SF	5,136,190	08/04/92	Chern et al.	—	—	
SF	4,594,519	06/10/86	Ohtani et al.	—	—	
SF	4,593,214	06/03/86	Proebsting	—	—	
SF	4,527,254	07/02/85	Ryan et al.	—	—	
SF	4,518,873	05/21/85	Suzuki et al.	—	—	
SF	4,499,388	02/12/85	Adam	—	—	

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No
62-124769	06/06/87	Japan	—	—	Abstract
58-01972	05/17/83	Japan	—	—	Abstract
58-32466	02/25/83	Japan	—	—	Abstract
58-158967	09/21/83	Japan	—	—	Abstract
58-115864	07/19/83	Japan	—	—	Abstract
1-144207	06/06/89	Japan	—	—	— X
56-81972	07/04/81	Japan	—	—	Abstract

OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)

SHIK-SAN FONG

Date Considered 2/10/2002

Please type a plus sign (+) inside the circle.

JUN 13 2002

P10 SB 08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A P10		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	09/916,484
		Filing Date	July 30, 2001
		First Named Inventor	Shunpei YAMAZAKI et al.
		Group Art Unit	2823
		Examiner Name	Suk-San Foong T. PHAM
		Attorney Docket Number	0756-2344
Sheet		of	

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
TWP		5,079,183		Maeda et al.	01/07/92	
TWP		5,250,931		Misawa et al.	10/05/93	
TWP		5,795,800		08/18/98	08/18/98	

FOREIGN PATENT DOCUMENTS							
Examiner Initials ¹	Cite No. ²	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1*
		Office ³	Number ⁴ (if known)				
TWP		JP	51-095742		08/21/76		Concise Summ.
TWP		JP	56-111258		09/02/81		Full
TWP		JP	60-074564		04/26/85		Abst.
TWP		JP	01-117068		05/09/89		Abst.
TWP		JP	01-289917		11/21/89		Abst.
TWP		JP	02-084773		03/26/90		Abst.
TWP		JP	03-239358		10/24/91		Abst.
TWP		JP	03-289629		12/19/91		Abst.
TWP		JP	04-018524		01/22/92		Abst.
TWP		JP	04-080725		03/13/92		Abst.
TWP		JP	09-022951		01/21/97		Abst.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published.	T ³

Examiner Signature	<i>[Signature]</i>	Date Considered	6/21/03
--------------------	--------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY

CLASS
SUB
CLASS


Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A PTO				<div style="text-align: center;">  </div> <div style="text-align: right;"> Complete if Known </div>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/916,484
				Filing Date	July 30, 2001
				First Named Inventor	Shunpei YAMAZAKI et al.
				Group Art Unit	2823
				Examiner Name	S. Foong <i>Pham</i>
				Attorney Docket Number	0756-2344
Sheet	1	of	1		

[illegible][illegible]

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T†

Examiner Signature	Fourson	Date Considered	10/15/02
-----------------------	---------	--------------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.**

BEST AVAILABLE COPY

Please type a plus sign (+) inside this box →



COPY OF PAPERS
ORIGINALLY FILED

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	09/916,484
		Filing Date	July 30, 2001
		First Named Inventor	Shunpei YAMAZAKI et al.
		Group Art Unit	2823
		Examiner Name	S. Foong Phan
Sheet 1 of 1	Attorney Docket Number	0756-2344	

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ³	Kind Code ² (if known)				
JK		JP	60-245172			12/04/1985		Full

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

Examiner Signature	<i>Joey Lubben</i>	Date Considered	10/24/02
--------------------	--------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. * Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY

CLASS
sub
class

Please type a plus sign (+) inside this box → [-]

PTO SB-08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449A PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>		Application Number	09/916,484
		Filing Date	July 30, 2001
		First Named Inventor	Shunpei YAMAZAKI et al.
		Group Art Unit	2823
		Examiner Name	S. Foong T. PHAM
Sheet 1 of 1	Attorney Docket Number	0756-2344	

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ¹ (if known)			
WP		4,989,057		Lu	01/29/1991	
WP		5,130,770		Blanc et al.	07/14/1992	

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office	Number	Kind Code ¹ (if known)			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	(include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published)	

Examiner Signature	<i>Pham Thanh</i>	Date Considered	11/21/03
--------------------	-------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Commissioner For Patents, Washington, DC 20231.

BEST AVAILABLE COPY

MAY 22 2003

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

U.S. PATENT DOCUMENTS

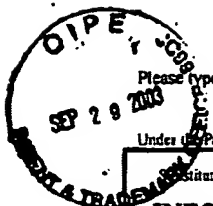
FOREIGN PATENT DOCUMENTS

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature	<i>Shamir</i>	Date Considered	4/01/04
-----------------------	---------------	--------------------	---------

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.**

BEST AVAILABLE COPY



Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09/916,484
		Filing Date	July 30, 2001
		First Named Inventor	Shunpei YAMAZAKI et al.
		Group Art Unit	2823
		Examiner Name	S. Foong — T. PHAM
Sheet 1 of 1	Attorney Docket Number	0756-2344	

Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patent or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
W.P.		5,245,452		Nakamura et al.	09/14/1993	

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patent or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ³	Kind Code ² (if known)				
W.P.		EP	0 348 209		12/27/1989			ENG
W.P.		JP	03-074880		03/29/1991			AB
W.P.		JP	03-101714		04/26/1991			AB

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

Examiner Signature	<i>[Signature]</i>	Date Considered	11/21/03
--------------------	--------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY

Please type a plus sign (+) inside this box → (+)



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no responses are required to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/916,484
				Filing Date	July 30, 2001
				First Named Inventor	Shunpei YAMAZAKI et al.
				Group Art Unit	2823
				Examiner Name	S. Foong T. PHAM
Sheet 1 of 1	Attorney Docket Number		0756-2344		

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ¹
		Office ³	Number ⁴	Kind Code ² (if known)				
WP		EP	0 460 605		Inoue, S.	12/11/1991		ENG
WP		EP	0 464 897		Shannon, J.M.	01/08/1992		ENG

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹

Examiner Signature	<i>Pham Thanh</i>	Date Considered	04/01/04
--------------------	-------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

CLASS 500 CLASS

TECHNOLOGICAL CENTER 800

RECEIVED

BEST AVAILABLE COPY